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Search Results - Record(s) 1 through 5 of 5 returned.

I. Document ID: US 20030136428 A1

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LS: Entry 1 of 5 File: PGPB

CITY

Belmont

Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030136428 PGPUB-FILING-TYPE: new DOCUMENT-IDENTIFIER: US 20030136428 A1

TITLE: Cleaning process residues on a process chamber component

PUBLICATION-DATE: July 24, 2003

INVENTOR-INFORMATION:

NAME

Kroch, Ole

STATE CA

Full Title Cristian Front Review Classification Data Returence Sequences Attrickments Claims Reful Draw P.

COUNTRY

RULE-47

US-CL-CURRENT: 134/28; 134/30, 134/41

2. Document ID: US 6337277 B1

L5: Entry 2 of 5 US-PAT-NO: 6337277 File: USPT

CA

us

Jan 8, 2002

DOCUMENT-IDENTIFIER: US 6337277 B1

TITLE: Clean chemistry low-k organic polymer etch

DATE-ISSUED: January 8, 2002

INVENTOR-INFORMATION: Dhindsa: Ratinder

CITY STATE ZIP CODE COUNTRY NAME Chou; Wen-Ben Palo Alto Ca San Jose

Chen; Ching-Hwa Milpitas CA

US-CL-CURRENT: 438/689; 438/704, 438/706, 438/745

ABSTRACT:

b g ce c f

Vectord Prot Dishiga

Jul 28, 1998

A method of cleanly etching an organic polymer layer disposed over a substrate is disclosed. The invention is particularly useful in damascene processing where omenings are etched in the organic polymer layer to form interconnects. The method includes lowering the temperature of the substrate. The method also includes flowing H.sub.2 0 vapor over the organic polymer layer and condensing (or freezing) the H. sub. 2 O vapor on the organic polymer layer. The method additionally includes etching through the organic polymer layer and the condensed H.sub.2 O vapor to form an opening having a side wall. The condensed (or frozen) H.sub.2 O vapor is arranged to form a passivating film (of ice) along the side wall of the opening to protect the side wall from etching.

20 Claims, 7 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 7

Ful | Title | Citation | Front | Review | Classification | Date | Reference |

File: USPT

T 3. Document ID: US 5785796 A

L5: Entry 3 of 5

US-PAT-NO: 5785796

DOCUMENT-IDENTIFIER: US 5785796 A

TITLE: Vacuum processing apparatus, vacuum processing method, and method for cleaning the vacuum processing apparatus

DATE-ISSUED: July 28, 1998

INVENTOR-INFORMATION:

NAME CITY

Nirasaki

STATE ZIP CODE

JP

COUNTRY

US-CL-CURRENT: 156/345.24; 118/715, 118/719, 134/1.1, 134/1.2, 134/1.3, 156/345.32, 204/298.25, 204/298.32, 204/298.33, 204/298.35, 216/59, 216/63, 216/67, 438/905

ABSTRACT:

Lee: Hideki

A vacuum processing apparatus includes a plurality of vacuum processing chambers for processing a target object using a process gas, a vacuum convey chamber, connected to the plurality of vacuum processing chambers, for loading/unloading the target object into/from the processing chambers, an opening/closing means opened/closed to cause the plurality of vacuum processing chambers to communicate with the vacuum convey chamber, and a cleaning gas supply means for supplying a cleaning gas containing ClF.sub.3 into at least one of the vacuum convey chamber and the plurality of vacuum processing chambers. The cleaning gas is supplied into the plurality of vacuum processing chambers and the vacuum convey chamber communicating with each other by opening the opening/closing means to clean the plurality of vacuum processing chambers and the vacuum convey chamber.

23 Claims, 32 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 16

b g ee e f

e f

Record List Display

4. Document ID: US 5616208 A

LS: Entry 4 of 5

File: USPT

Apr 1, 1997

US-PAT-NO: 5616208

DOCUMENT-IDENTIFIER: US 5616208 A

TITLE: Vacuum processing apparatus, vacuum processing method, and method for

cleaning the vacuum processing apparatus

Full Title Citation Front Review Classification Date Reference Control State

DATE-ISSUED: April 1, 1997

INVENTOR-INFORMATION:

NAME

CITY Lee; Hideki Nirasaki STATE ZIP CODE

.TP

COUNTRY

US-CL-CURRENT: 156/345.24; 118/715, 134/1.1, 134/1.2, 134/1.3, 156/345.29, 156/345.32, 204/298.25, 204/298.32, 204/298.33, 204/298.35, 216/59, 216/63, 216/67,

ABSTRACT:

A vacuum processing apparatus includes a plurality of vacuum processing chambers for processing a target object using a process gas, a vacuum convey chamber, connected to the plurality of vacuum processing chambers, for loading/unloading the target object into/from the processing chambers, an opening/closing means opened/closed to cause the plurality of vacuum processing chambers to communicate with the vacuum convey chamber, and a cleaning gas supply means for supplying a cleaning gas containing ClF.sub.3 into at least one of the vacuum convey chamber and the plurality of vacuum processing chambers. The cleaning gas is supplied-into the plurality of vacuum processing chambers and the vacuum convey chamber communicating with each other by opening the opening/closing means to clean the plurality of vacuum processing chambers and the vacuum convey chamber.

7 Claims, 32 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 16

> Full Title | Cration | Front | Review | Classication | Date | Reference | Salasin No. | Salasin No. | 5. Document ID: WO 2003061859 A1, US 20030136428 A1

L5: Entry 5 of 5 File: DWPI

Jul 31, 2003

Claims KiniC Diane De

DERWENT-ACC-NO: 2003-709897 DERWENT-WEEK: 200367

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TITLE: Process residues cleaning method, involves partially immersing electrostatic

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 $\underline{\text{chuck}}$ component into $\underline{\text{cleaning}_{\ell}}$ and passing non-reactive $\underline{\text{gas}}$ through holes at high pressure

INVENTOR: KROGH, O

PRIORITY-DATA: 2002US-0056299 (January 23, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 2003061859 A1	July 31, 2003	E	000	B08B003/04
US 20030136428 A1	July 24, 2003		006	B08B003/04

INT-CL (IPC): B08 B 3/04; B08 B 3/08; C23 C 16/44

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